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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the present

application.

Listing of Claims:

1-22. (Canceled)

23. (Currently Amended) A tooth whitening set for reversible reversibly making tooth

look white in the presence of water from saliva without chemical bleaching reactions due to a

peroxide, comprising a nonaqueous gel composition for tooth whitening and a tool for its

application which is detachably fitted to teeth while holding it,

said nonaqueous gel composition comprising:

(A) a tooth whitening ingredient having a relative permittivity of 17.0 to 43.0 (at 25°C)

and a vapor pressure of 0 to 7000 kPa (at 25°C), said tooth whitening ingredient (A) is selected

from the group consisting of isopropanol, butanol, ethylene glycol, polyethylene glycol with an

average molecular weight of 190 to 630, diethylene glycol, propylene glycol, dipropylene glycol,

butylene glycol, and glycerin,

(B) a substance which dissolves in said tooth whitening ingredient and is precipitated by

an aqueous solution of calcium chloride, and

(C) a gelling agent.

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wherein said composition being substantially free of water and peroxide, and has a water

content of less than 3% by weight of the total amount of the composition and being free of a

peroxide,

said tool for its application being a tape, sheet or film which retains and keeps the

composition in position in contact with teeth for 1 to 120 minutes by covering the composition

and preventing the dilution of the composition by invasion of saliva to ensure that the tooth

whitening ingredient infiltrates into an enamel through its surface and to remain in the enamel,

and

said substance (B) which has been dissolved in the tooth whitening ingredient being

precipitated by water in saliva to prevent the tooth whitening ingredient in the enamel from

easily leaching out and being replaced by water in saliva, thereby changing optical properties of

the enamel without chemical reactions so that the enamel looks apparently cloudy and whiter

than original.

24. (Previously Presented) The tooth whitening set as defined in claim 23, wherein the

tooth whitening ingredient (A) is at least one selected from the group consisting of polyethylene

glycol with an average molecular weight of 190 to 630, butylene glycol, and glycerin.

25. (Previously Presented) The tooth whitening set as defined in claim 23, wherein the

substance (B) is at least one selected from the group consisting of myristic acid, 7-

hydroxymyristic acid, jalaric acid, 9,10,16-trihydroxypalmitic acid, palmitoleic acid, 12-

hydroxystearic acid, isostearic acid, oleic acid, linoleic acid, linolenic acid, erucic acid, shellac,

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t-Bu acrylate/ethyl acrylate/methacrylic acid copolymer, methyl acrylate/methacrylic acid

copolymer, methyl methacrylate/methacrylic acid copolymer, acrylic acid/acrylamide/ethyl

acrylate copolymer, octylacrylamide/acrylate ester copolymer, and methyl methacrylate/ethyl

acrylate/methacrylic acid trimethylammonium ethyl chloride copolymer.

26. (Previously Presented) The tooth whitening set as defined in claim 23, wherein the

substance (B) is at least one selected from the group consisting of isostearic acid, shellac, t-Bu

acrylate/ethyl acrylate/methacrylic acid copolymer, acrylic acid/acrylamide/ethyl acrylate

conolymer, octylacrylamide/acrylate ester conolymer, and methyl methacrylate/ethyl

acrylate/methacrylic acid trimethylammonium ethyl chloride copolymer.

27. (Previously Presented) The tooth whitening set as defined in claim 23, wherein the

gelling agent (C) is at least one selected from the group consisting of polyacrylic acid,

carboxyvinyl polymer, hydroxypropyl cellulose, carboxymethyl cellulose, and salts thereof.

28. (Previously Presented) The tooth whitening set as defined in claim 23, wherein the

tooth whitening ingredient (A) accounts for 50.0 to 99.5 % by weight of the total amount of the

composition, the substance (B) accounts for 0.1 to 10 % by weight of the total amount of the

composition, and the gelling agent (C) accounts for 0.1 to 15 % by weight of the total amount of

the composition.

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29. (Previously Presented) The tooth whitening set as defined in claim 23, wherein the

substance (B) is at least two or more selected from the group consisting of C14-22 higher fatty

acids and acrylic acid copolymers.

30. (Currently Amended) The tooth whitening set as defined in claim 23, wherein said

tool for application is made of water-insoluble material, which gives a pleasant feeling in the

mouth and prevents excess salivation during use, thereby permitting the gel composition to stay

in the mouth for a long period of time, and

said material is selected from the group consisting of polyethylene, formed foamed

polyethylene, polypropylene, formed foamed polypropylene, polyester, polyurethane, rayon,

pulp, cotton, silk, paper, metal foil, silicone rubber, natural rubber, vinyl acetate resin, acrylic

resin and ethylene-vinyl acetate resin.

31. (Currently Amended) A tooth whitening set for reversible reversibly making tooth

look white in the presence of water from saliva without chemical bleaching reactions due to a

peroxide, comprising a nonaqueous gel composition for tooth whitening and a tool for its

application which is detachably fitted to teeth while holding it, said nonaqueous gel composition

comprising:

(A) a tooth whitening ingredient having a relative permittivity of 17.0 to 43.0 (at 25°C)

and a vapor pressure of 0 to 7000 kPa (at 25°C),

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(B) a substance which dissolves in said tooth whitening ingredient and is precipitated by

an aqueous solution of calcium chloride, said substance (B) is at least one selected from the

group consisting of C14.22 higher fatty acids and/or acrylic acid copolymers, and

(C) a gelling agent,

wherein said composition being substantially free of water and peroxide, and has a water

content of less than 3% by weight of the total amount of the composition and being free of a

peroxide,

said tool for its application being a tape, sheet or film which retains and keeps the

composition in position in contact with teeth for 1 to 120 minutes by covering the composition

and preventing the dilution of the composition by invasion of saliva to ensure that the tooth

whitening ingredient infiltrates into an enamel through its surface and to remain in the enamel,

<u>and</u>

said substance (B) which has been dissolved in the tooth whitening ingredient being

precipitated by water in saliva to prevent the tooth whitening ingredient in the enamel from

easily leaching out and being replaced by water in saliva, thereby changing optical properties of

the enamel without chemical reactions so that the enamel looks apparently cloudy and whiter

than original.

32. (Previously Presented) The tooth whitening set as defined in claim 31, wherein the

tooth whitening ingredient (A) is at least one selected from the group consisting of polyethylene

glycol with an average molecular weight of 190 to 630, butylene glycol, and glycerin.

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33. (Previously Presented) The tooth whitening set as defined in claim 31, wherein the

substance (B) is at least one selected from the group consisting of myristic acid, 7-

hydroxymyristic acid, jalaric acid, 9,10,16-trihydroxypalmitic acid, palmitoleic acid,

12-hydroxystearic acid, isostearic acid, oleic acid, linoleic acid, linolenic acid, erucic acid,

shellac, t-Bu acrylate/ethyl acrylate/methacrylic acid copolymer, methyl acrylate/methacrylic

 $acid\ copolymer,\ methyl\ methacrylate/methacrylic\ acid\ copolymer,\ acrylic\ acid/acrylamide/ethyl$ 

 $a crylate\ copolymer,\ octylacrylamide/a crylate\ ester\ copolymer,\ and\ methyl\ methacrylate/ethyl$ 

acrylate/methacrylic acid trimethylammonium ethyl chloride copolymer.

34. (Previously Presented) The tooth whitening set as defined in claim 31, wherein the

substance (B) is at least one selected from the group consisting of isostearic acid, shellac, t-Bu

acrylate/ethyl acrylate/methacrylic acid copolymer, acrylic acid/acrylamide/ethyl acrylate

copolymer, octylacrylamide/acrylate ester copolymer, and methyl methacrylate/ethyl

acrylate/methacrylic acid trimethylammonium ethyl chloride copolymer.

35. (Previously Presented) The tooth whitening set as defined in claim 31, wherein the

gelling agent (C) is at least one selected from the group consisting of polyacrylic acid,

carboxyvinyl polymer, hydroxypropyl cellulose, carboxymethyl cellulose, and salts thereof.

36. (Previously Presented) The tooth whitening set as defined in claim 31, wherein the

tooth whitening ingredient (A) accounts for 50.0 to 99.5 % by weight of the total amount of the

composition, the substance (B) accounts for 0.1 to 10 % by weight of the total amount of the

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composition, and the gelling agent (C) accounts for 0.1 to 15 % by weight of the total amount of

the composition.

37. (Previously Presented) The tooth whitening set as defined in claim 31, wherein the

substance (B) is at least two or more selected from the group consisting of C14-22 higher fatty

acids and acrylic acid copolymers.

38. (Currently Amended) The tooth whitening set as defined in claim 31, wherein said

tool for application is made of water-insoluble material, which gives a pleasant feeling in the

mouth and prevents excess salivation during use, thereby permitting the gel composition to stay

in the mouth for a long period of time, and

said material is selected from the group consisting of polyethylene, formed foamed

polyethylene, polypropylene, formed foamed polypropylene, polyester, polyurethane, rayon,

pulp, cotton, silk, paper, metal foil, silicone rubber, natural rubber, vinyl acetate resin, acrylic

resin and ethylene-vinyl acetate resin.

39. (Currently Amended) A method for reversibly making teeth look white in the

presence of water from saliva without chemical bleaching reaction due to a peroxide,

said method comprising applying a tape, sheet or film having a nonaqueous gel

composition,

said gel composition comprising:

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(A) a tooth whitening ingredient having a relative permittivity of 17.0 to 43.0 (at 25°C)

and a vapor pressure of 0 to 7000 kPa (at 25°C),

(B) a substance which dissolves in said tooth whitening ingredient and is precipitated by

an aqueous solution of calcium chloride, and

(C) a gelling agent,

wherein said composition being substantially free of water and a bleaching agent

including a peroxide, and has a water content of less than 3% by weight of the total amount of

the composition and being free of a bleaching agent or a peroxide,

said composition being coated thereon to teeth for 1 to 120 minutes so that the

composition is stuck to teeth and covered by the tape, sheet or film thereby preventing the

composition from being diluted by invasion of saliva,

said tooth whitening ingredient (A) is selected from the group consisting of isopropanol,

butanol, ethylene glycol, polyethylene glycol with an average molecular weight of 190 to 630,

diethylene glycol, propylene glycol, dipropylene glycol, butylene glycol, and glycerin,

said tooth whitening ingredient infiltrates infiltrating into an enamel through its surface

and to remain in the enamel,

said substance (B) which has been dissolved in the tooth whitening ingredient being

precipitated by water in saliva to prevent the tooth whitening ingredient in the enamel from

easily leaching out and being replaced by water in saliva, thereby changing optical properties of

the enamel without chemical reactions so that the enamel looks apparently cloudy and whiter

than original, and

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after whitening, said one or more tooth whitening ingredients in the enamel is replaced by

water from saliva, thereby going back to the original color of the enamel reversibly.

40. (Previously Presented) The method of claim 39, wherein the substance (B) is at least

one selected from the group consisting of C14.22 higher fatty acids and acrylic acid copolymers.

41. (New) A tooth whitening set for reversibly making tooth look white in the presence of

water from saliva without chemical bleaching reactions due to a peroxide, comprising a

nonaqueous gel composition for tooth whitening and a tool for its application which is

detachably fitted to teeth while holding it, said nonaqueous gel composition comprising:

(A) a tooth whitening ingredient having a relative permittivity of 17.0 to 43.0 (at 25°C)

and a vapor pressure of 0 to 7000 kPa (at 25°C).

(B) a substance which dissolves in said tooth whitening ingredient and is precipitated by

an aqueous solution of calcium chloride, said substance (B) is at least one selected from the

group consisting of acrylic acid copolymers, and

(C) a gelling agent,

said composition having a water content of less than 3% by weight of the total amount of

the composition and being free of a peroxide.

said tool for its application being a tape, sheet or film which retains and keeps the

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composition in position in contact with teeth for 1 to 120 minutes by covering the composition

and preventing the dilution of the composition by invasion of saliva to ensure that the tooth

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whitening ingredient infiltrates into an enamel through its surface and to remain in the enamel,

and

said substance (B) which has been dissolved in the tooth whitening ingredient being

precipitated by water in saliva to prevent the tooth whitening ingredient in the enamel from

easily leaching out and being replaced by water in saliva, thereby changing optical properties of

the enamel without chemical reactions so that the enamel looks apparently cloudy and whiter

than original.